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E. I. DU PONT DE NEMOURS & COMPANY
INCORPORATED
WILMINGTON, DELAWARE 19898

CHEMICALS, DYES AND PIGMENTS DEPARTMENT

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TO: R. M. SALEMI

FROM: K. D. DASTUR

NEWPORT LAND SALE - CURRENT STATUS

Four test borings were made on the 0.9 acre parcel proposed for sale to the State Division of Highways. Three borings were made on the adjacent 4.4 acres sold in 1974. Results are as follows:

- Lithopone subsoil contamination is much greater in the 0.9 acre parcel compared to the 4.4 acre zone, indicating that the former rests on the inactive dump site.

- There are three basic soil layers in the affected region; topsoil, topsoil and clay contaminated with Lithopone, and virgin clay.

- The topsoil is not native to the region. It was imported to cap the inactive dump site and later augmented by the State during road grading operations. The depth range is 0 to 8 feet. Sections of the topsoil in the 0.9 acre zone are more heavily contaminated with Lithopone than in the 4.4 acre zone.

- The "Lithopone layer" varies in depth from 8 to 14 feet in the 0.9 acre zone and 8 to 12 feet in the 4.4 acre zone. The layer consists of Lithopone residue, topsoil and clay. Lithopone residue concentrations in the 0.9 acre zone are much higher than in the 4.4 acre zone.

- The clay layer begins at a depth of about 14 feet. In the 0.9 acre zone, it is contaminated with Lithopone residues (probably through leaching) to a depth of about four feet. In the 4.4 acre zone, the degree of contamination is much less and extends through a shorter depth.

- Soil analyses have been requested to characterize each of the three layers described above. A single composite will be made of selected split spoon samples representative of each section. Analysis will be restricted to soils from the 0.9 acre zone. Engineering Dept. will arrange for the analysis with Richardson Associates. Cost and timing are estimated at $1,500 and three weeks.

- Per Engineering's recommendation, the soil samples will be analyzed for the following: barium, zinc, arsenic, cadmium, chromium, lead, mercury, sulfate, sulfide, silica, alumina, calcium and magnesium.

- Following analysis, the hazard significance of the contaminants determined will be reviewed with Engineering, Haskell and the Director of Environmental Affairs. Non-objection to sale from the latter will be requested.

- Real Estate Division will be requested to prepare the sale deed and incorporate into it data on the subsoil character, appropriate deed restrictions and indemnifying clauses.

- Legal (Everett) says we have no legal obligation to inform any other State agency of our findings as a prelude to sale to the Division of Highways.

KDD/pah